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		= Familiarity W=W orking E=Expert D=Demonstrated Abili	Project Management Overview (Includes PMC11 Train-Train	Best Practices in DOE Project Management		.92					gra			Program Execution, Control, & Evaluation			Acquisition Management for Technical Personnel	Performance Based Management Contracting	
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	Level Required:	 -)TO	3es	Project Planning	Cost & Schedule Estimation &)TO	ife	ys	Jro,	3ud	Program Management Overview	Program Planning)ro	Effective Managerial Decision Making	Contracting Officer's Representative	4cg	erf	Life Cycle Asset Management
						25	PMMS3 Project Execution	PMCE01 Life Cycle Cost Estimating	PMCE02 Systems Engineering	PMCE03 Project Risk Analysis and Management	PMMS11Budgeting & Accountiing for DOE Program/Project Managers								
			PMC10	PMMS5	PMMS1	PMMS2	X	CE	CE	CE	X	PGM01	PGM02	PGM05	PGM06	PRS17	PRS25	PSIN28	PSIN29
Required Competencies:			PM	P.	PM	P.W	PM	P.W	PM	PM	PM PM	PG	PG	PG	PG	PR	PR	PS	PS
1.19 Working level knowledge of the following engineering design																			
principles: value engineering configuration management, systen	_																		
engineering, reverse engineering, life cycle cost, maintainability			_		_		_		_									<u> </u>	_
1.19a. Define: value engineering, configuration management,	-		F	F	F	F	F	F	F										F
systems engineering, reverse engineering, life cycle cost, maintainability	-																		
1.19b. Describe the reverse engineering process and its benefits	-																		
1.19c. Describe how the principles of value engineering can be			F	F	F	F			F										
applied to mechanical systems projects				i		ľ													
1.19d. Explain how life cycle costs are determined for a mechanical			F	F	F	F		F											F
system and how those costs can be used																			
1.19e. Explain systems engineering principles and benefits			F	F	F	F	F		F										
1.19f. Describe why maintainability must be considered in	<u> </u>		F	F	F		F												
mechanical system design	-		F	F	F		F												
1.19g. Discuss the principles and importance of configuration management	<u> </u>		Г	Г	Г		Г												
тапаусты																			
2.2 Familiarity level knowledge of DOE Standard DOE-STD-1073-93,																			
Guide for Operational Configuration Management Program																			
2.2a. Describe the purpose and objectives of the Operational			F	F	F		F												
Configuration Management Program																			
2.2b. Discuss what constitutes acceptable contractor																			
compliance consistent with the requirements of DOE-STD-	<u> </u>							-										<u> </u>	
1073-93, Guide for Operational Configuration Management	<u> </u>																	_	-
Program, for the following elements of the contractor's Configuration Management plan:	<u> </u>																		
Configuration Management plan:																			

2.2c. Discuss the following elements of the Configuration Management	 F	F	F	_	F		F	T	1		I				1		Т —
Program: design requirements, document control, change	Г	Г	Г	Г	Г		Г										-
control, assessments, design reconstitution adjunct, materials				-				-						-			-
condition condition																	-
	F	F	F	F	F		F	F						-			-
2.2d. Discuss the purpose, concepts, and general process for applying	Г	Г	Г	Г	Г		Г	Г						-			
the graded approach to operational configuration management																	
0.05 35 35 4 10 11 11 11 10 10 10 10 10 10 10 10 10				-				-						-			-
2.9 Familiarity level knowledge of DOE Order 4700.1, Project Management System				-				-						-			-
<u> </u>	F	F	W	W	W				F	F		F		F	F	F	F
2.9a. Discuss the purpose, scope, and application of DOE Order	Г	Г	VV	VV	VV				Г	Г		Г		Г	Г	Г	-
4700.1, Project Management System. Include in this discussion				-										-			
the key terms essential elements, and personnel																	
responsibilities and authorities	F	F	W	10/	14/				F	F		F	F	_	F	F	F
2.9b. Discuss the project management terminology for which	г	F	VV	W	W			-	F	F		F	г	F	F	г	-
definitions are provided in DOE Order 4700.1, Project																	
Management System	_	_	_	-	-	_	_	-	-	_		_		_	-	_	_
2.9c. Discuss in detail the roles played by various management level	F	F	F	F	F	F	F	F	F	F		F		F	F	F	F
within the Department as they relate to the Project																	
Management System	_	_				_	_	_	_				_	-			
2.9d. Discuss the purpose of "critical decisions". Include in the	F	F	W	W	W	F	F	F	F				F				F
discussion the responsible authorities for critical decisions																	
2.9e. Describe the process by which projects are designated	F	F	F														F
4.3 Familiarity level knowledge of program/project management																	
practices and the application of contractor resources to meet																	
commitments to mechanical systems quality, safety, cost,																	
and schedule																	
4.3a. Explain the purpose of project management and describe the lif	F	F	F	F	F	F	F	F	F	F	F	F	F		F	F	F
cycle of a typical project																	
4.3b. Describe typical documents and data sources utilized in project	F	F	F	F	F	F	F	F	F	W	W	W	W	F	F	F	F
management																	
4.3c. Identify and explain the major elements of a project and discuss	F	F	F	F	F	F	F	F	F								F
their relationship																	
4.3d. Explain the purpose and use of a Project Management Plan	F	F	F	F	F											F	F
Plan (PMP)																	
4.3e. Discuss the role of configuration management as it relates to	F	F	F		F												
project management																	
4.3f. Discuss the role of quality assurance as it relates to project	F	F	F		F		F			F		F					
management																	
4.3g. Explain the use of safety plans in the management of projects	F	F	F		F					F	F						
4.3h. Discuss the relationship between work breakdown structure	F	F	F	F	F	F	F	F	F	F				F	F	F	F
(WBS) and cost and schedule																	
4.3i. Describe the purpose and use of work packages and/or planning	F	F	W	F	W									F		F	
packages																	
4.3j. Describe the purpose of schedules and discuss the use of	F	F	F	F	F		F			F	W	F	F				
milestones and activities																	
4.3k. Describe the critical path method of scheduling	F	F		W	F			1	1	F	F	F	F	1	1		+
4.3l. Explain the concept of a project management baseline and	F	F	W	W	W	F	F	F	F					F	F	F	F
describe the cost, schedule, and scope baselines used in				Ť	Ė	1	1			1							1
project management				1										1			+
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